



# Maryland Summer Centers

for Gifted and  
Talented Students

Sponsored by the Maryland State Department of Education

## 2012 Maryland Summer Centers for Gifted and Talented Students Summary Sheet

*Spanish translation is available. Call 410-767-0821.*

Continuing a tradition of excellence for forty-five years, the Maryland Summer Centers (MSC) engage gifted and talented students entering Grades 4-12 in unique summer programs. Centers located across the State offer one- to three-week residential and nonresidential programs with a focus on the arts, sciences, technology, engineering, and world languages.

Please consult the Maryland State Department of Education website [www.marylandpublicschools.org/summercenters](http://www.marylandpublicschools.org/summercenters) for more detailed descriptions of the Centers and application forms.

The deadline for applications is April 15. Directors will accept applications after April 15 until the Center enrollment is filled.

<p><b>Honeywell Center for Ecosystems Education at Horn Point</b> Funded by Honeywell Hometown Solutions</p> <p>LOCATION: University of Maryland Center for Environmental Science, Cambridge Dorchester County ENTERING GRADES: 6 - 10 DATES: See below. TUITION: \$385 one-week residential</p> <p>Work beside scientists at one of the premier research facilities in the world, the Horn Point Environmental Laboratory on the Choptank River. Using the Investigating and Evaluating Environmental Issues and Actions model, students will collect and analyze real-world data to determine the effects of physical, chemical, biological, and human influences on submerged aquatic vegetation, the rockfish, the blue crab, and the oyster in the Chesapeake Bay.</p> <p>Section A: Entering Grades 6-8 July 14-20 Section B: Entering Grades 7-10 July 22-28</p> <p>Contact: Gwendolyn B. Handy Dorchester County Public Schools 700 Glasgow Street Cambridge, MD 21613 (410) 228-4747 Ext 1011 <a href="mailto:handyg@dcpsmd.org">handyg@dcpsmd.org</a></p>	<p><b>Center for Space Science</b> Funded by Science Applications International Corporation (SAIC)</p> <p>LOCATION: Johns Hopkins University Applied Physics Laboratory, Howard County ENTERING GRADES: 6-7 DATES: July 16 - 27 8:30 AM - 3:00 PM TUITION: \$350 two-week nonresidential</p> <p>Learn about the current applications of space technology and exploration of the solar system by simulating the process involved in designing a NASA Discovery Mission. Plan and launch a simulated space mission, including the design and fabrication of instrumentation for a spacecraft. Interact with scientists and engineers, tour Mission Control, and the environmental test facilities located at the Johns Hopkins University Applied Physics Laboratory.</p> <p>Contact: Lindsey Jones Baltimore County Public Schools 1100 Mace Ave Baltimore, MD, 21221 (410) 887-0190 <a href="mailto:ljones15@bcps.org">ljones15@bcps.org</a></p>	<p><b>Maryland Summer Center for Conservation Research</b> Funded by Harford County Public Schools</p> <p>LOCATION: Harford Glen Environmental Center Harford County ENTERING GRADES: 4-8 DATES: July 16 - 27 8:00 AM - 3:00 PM TUITION: \$250 two-week nonresidential</p> <p>Harford Glen is the home to large areas of wetlands containing numerous rare plants and many forms of wildlife that use the wooded areas and water as a refuge. Due to the ever-increasing number of people looking for outdoor experiences, these ecological resources are being impacted. At the Center for Conservation Research, you will research topics such as aquatic biology, wildlife management, forestry, and soil conservation. You will use Geospatial technologies such as GIS and GPS to collect and analyze data. The output of this research will be an action plan and presentation.</p> <p>Contact: Debra Daugherty Harford County Public Schools 102 South Hickory Avenue Bel Air, MD 21014 (410) 588-5354 <a href="mailto:debra.daugherty@hcps.org">debra.daugherty@hcps.org</a> <a href="http://www.hcps.org/gifted">www.hcps.org/gifted</a></p>
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### Center for Computer Science and Creativity

Funded by Northrop Grumman

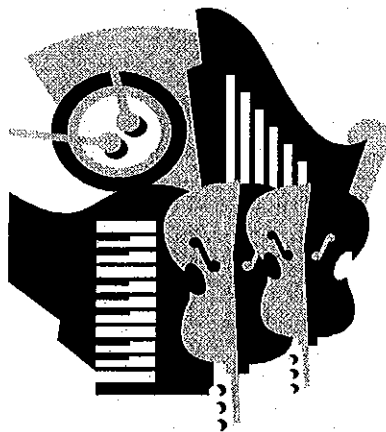
LOCATION: Community College of  
Baltimore County – Essex Campus  
ENTERING GRADES: 3 - 8  
DATES: July 16 - 27  
9:00 AM – 3:00 PM  
TUITION: \$200 two-week  
nonresidential

Learn a new way to be creative  
through computer programming.  
Using the medium of computer  
languages, participants will become  
the architects of their own virtual  
worlds. Students will create  
animations using visual objects and  
straightforward commands that make  
programming easier to understand.

Students will exercise their creativity,  
problem-solving, and critical thinking  
skills while designing a final project  
to present at the conclusion of the  
session. The skills they develop  
provide a useful foundation for  
learning more advanced programming  
in languages such as Java, C++, and  
Python. Students will also learn  
valuable processes essential to  
programming. This includes  
everything from the software  
development cycle to  
“CamelCase”. The program also  
emphasizes critical executive function  
skills such as project management,  
collaboration, and communication.

Housed at the Community College of  
Baltimore County Essex Campus,  
students will get the college  
experience in state of the art computer  
labs. Lastly, the two-week experience  
will emphasize Internet safety and  
highlight the exciting careers in  
Computer Science and Cyber-  
security.

Contact: Eric Cromwell  
Baltimore County Public Schools  
9611 Pulaski Highway, Suite 307  
Baltimore, MD 21220  
(410) 887-2063  
[Ecromwell@bcps.org](mailto:Ecromwell@bcps.org)



### Center for the Fine and Performing Arts

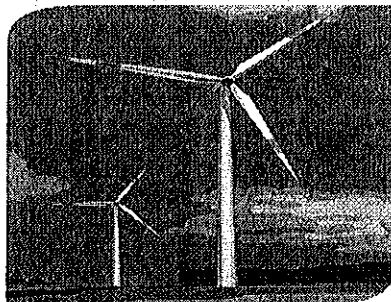
LOCATION: Salisbury University,  
Wicomico County  
ENTERING GRADES: 7 - 12  
DATES: July 1 - 14  
TUITION: \$1,200 two-week residential  
Financial assistance is available.

Come to the beautiful campus of Salisbury  
University and gain a sense of living in an  
artists' community. Enhance your unique  
abilities and learning style as you participate  
in one of the following course offerings:  
orchestra, musical theater, acting, visual arts,  
creative writing, or digital filmmaking.

Contact: Robert Smith  
Salisbury University  
1101 Camden Avenue  
Salisbury, MD 21801-6860  
(410) 548-4777  
[msca@salisbury.edu](mailto:msca@salisbury.edu)  
[www.salisbury.edu/msca](http://www.salisbury.edu/msca)

Applications must be postmarked by  
April 11 in order to attend an audition.

April 14: Franklin Middle School, Baltimore  
County or  
April 21: Salisbury University



### Center for Space Engineering: Robotics

LOCATION: Howard B. Owens Science  
Center, Prince Georges County  
ENTERING GRADES: 7 - 9  
DATES: July 9 - 24 (Monday – Thursday only)  
8:30 AM – 3:00 PM  
TUITION: \$400 two-week nonresidential

Students will design, build, and test robots that  
use sensors to conduct missions. In small  
engineering teams, you will explore the  
process of brainstorming, collaborating, and  
implementing various levels of robotic  
challenges in order to search for simulated  
lunar ice. You will also have access to the  
Challenger Learning Center, NASA's Goddard  
Space Flight Center's Science on a Sphere, and  
the Planetarium. Finally, you will interact with  
an astronaut, engineers, and other science-  
related professionals while you learn about  
cutting edge STEM careers. A space  
engineering field trip will also be included.

Contact: Treesa Elam-Respass  
Howard B. Owens Science Center  
9601 Greenbelt Road  
Lanham, MD 20706  
(301) 918-8750  
[Treesa.ElamRespass@pgcps.org](mailto:Treesa.ElamRespass@pgcps.org)

### Center for the Physics of Solar and Wind Power

Funded by Northrop Grumman

LOCATION: Frostburg State University,  
Allegany County  
ENTERING GRADES: 7 - 9  
DATES: July 15 – 21  
TUITION: \$400 one-week residential

Do you love science and mathematics? Work  
with college professors to learn the principles  
of electricity, power, and energy to set up a  
model house with a windmill and solar panels  
to study how these basic principles apply to the  
residential use of renewable energy. You'll  
compare your predictions with actual data  
from a solar and wind equipped house on the  
Frostburg University campus. After careful  
data collection on efficiency and cost analysis,  
you will prepare arguments in favor of or  
opposing the use of solar and wind power as a  
source of energy for typical houses. You will  
visit a wind turbine site to see these energy  
workhorses up close.

Contact: Dr. Hang Deng-Luzader  
Department of Physics/Engineering  
Frostburg State University  
104 Compton Science Center  
Frostburg, MD 21432  
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[hluzader@frostburg.edu](mailto:hluzader@frostburg.edu)